

# ARCTAS

<http://www.espo.nasa.gov/arcta>



Kent Shiffer 1/7/08

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# Locations

Palmdale, California

Wallops,

Langley, Virginia

Fairbanks, Alaska

Thule, Greenland

Cold Lake, Canada

Yellowknife, Canada



# ARCTAS Summary of Diplomatic Overflight Clearance Requests

Mission Phase/Aircraft	Basing Location	Clearances Requested
<i>Phase 1: 3/31/08 to 4/25/08</i>		
DC-8 and P-3	Fairbanks, AK & Thule, Greenland	Canada, Denmark (Greenland), Iceland, Norway, Sweden, Finland, Russia
B-200	Barrow, AK	Canada, Russia
<i>Phase 2A: 6/16-27/08</i>		
DC-8 and P-3	Dryden Aircraft Ops Facility Palmdale, CA	Canada, Mexico
B-200	LaRC, Hampton, VA	None
<i>Phase 2B: 6/23/08 to 7/18/08</i>		
DC-8 and P-3	Cold Lake, Alberta	Canada, Denmark (Greenland), Iceland, Norway, Sweden, Finland, Russia
B-200	Yellowknife, Northwest Territories	Canada

# Spring Logistics

- Schedule
- PI Registration (ESPO)
  - Log in and submit deployment site requirements data
  - Who, What, Where, When, and how often?
- Security
  - Fairbanks - TSA restricted (SIDA, Security ID Area) includes the hangar bay and the aircraft ramp.
  - Thule – Stay within the local area. Do not get too curious although there is very little to see.
- Accommodations at each location
  - Aircraft parking and Office/lab Space
  - Lodging
- Shipping

# Schedules

- Flexible but firm
- Overall Mission Schedule
  - Includes Shipping dates
- Aircraft Upload Schedules

<http://www.espo.nasa.gov/arctas/schedule.php>

Travel costs may cut mission schedule in every respect

# March 2008 ARCTAS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
P-3 Instrument Integration						
DC-8 Instrument Integration						
9	10	11	12	13	14	15
DC-8 Instrument Integration						
16	17	18	19	20	21	22
			P-3 Test Flights			
DC-8 Instrument Integration and Laser Calibrations						
23	24	25	26	27	28	29
P-3 Test Flights		MRR				
DC-8 Instrument Integration and Test Flights						
Pack for Shipment			PI Equip. Ship to FAI			
30	31					

# April 2008 ARCTAS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 A/C Transit FAI	2	3	4	5
			ARCTAS Spring Deployment			
		Thule Access	→			
6	7	8	9	10	11	12
ARCTAS Spring Deployment						
→ ●						
13	14	15	16	17	18	19
ARCTAS Spring Deployment						
					Pack for Shipment	
20	21 A/C Transit Home	22	23	24	25	26
ARCTAS Deployment						
PI Equip. Ship to Home						
27	28	29	30			



# June 2008 ARCTAS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
P-3 Transit to Palmdale	P-3 Instrument Re-Integration and Test flight @ Palmdale					
15	16	17	18	19	20	21
P-3 Instrument Re-Integration @ Palmdale		CARB Deployment @ Palmdale				
	DC-8 Instrument Prep					
22	23	24	25	26	27	28
CARB Deployment @ Palmdale			ARCTAS Summer Deployment Cold Lake			
Pack for Shipment			Airlift Equip. ??			
29	30					
ARCTAS Summer Cold Lake						

# July 2008 ARCTAS

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
		1	2	3	4	5	
		ARCTAS Summer Deployment Cold Lake					
6	7	8	9	10	11	12	
		ARCTAS Summer Deployment Cold Lake					Equip. Ship
13	14	15	16	17	18	19	
ARCTAS Summer Cold Lake		Instrument Offload					
	A/C Transit Home						
20	21	22	23	24	25	26	
27	28	29	30	31			

# Fairbanks (FAI)

- Everts FBO Hangar and Office space
  - Office accommodations for all
    - Shared space with NOAA and DOE
  - Shared 6 Mbps up/down Internet



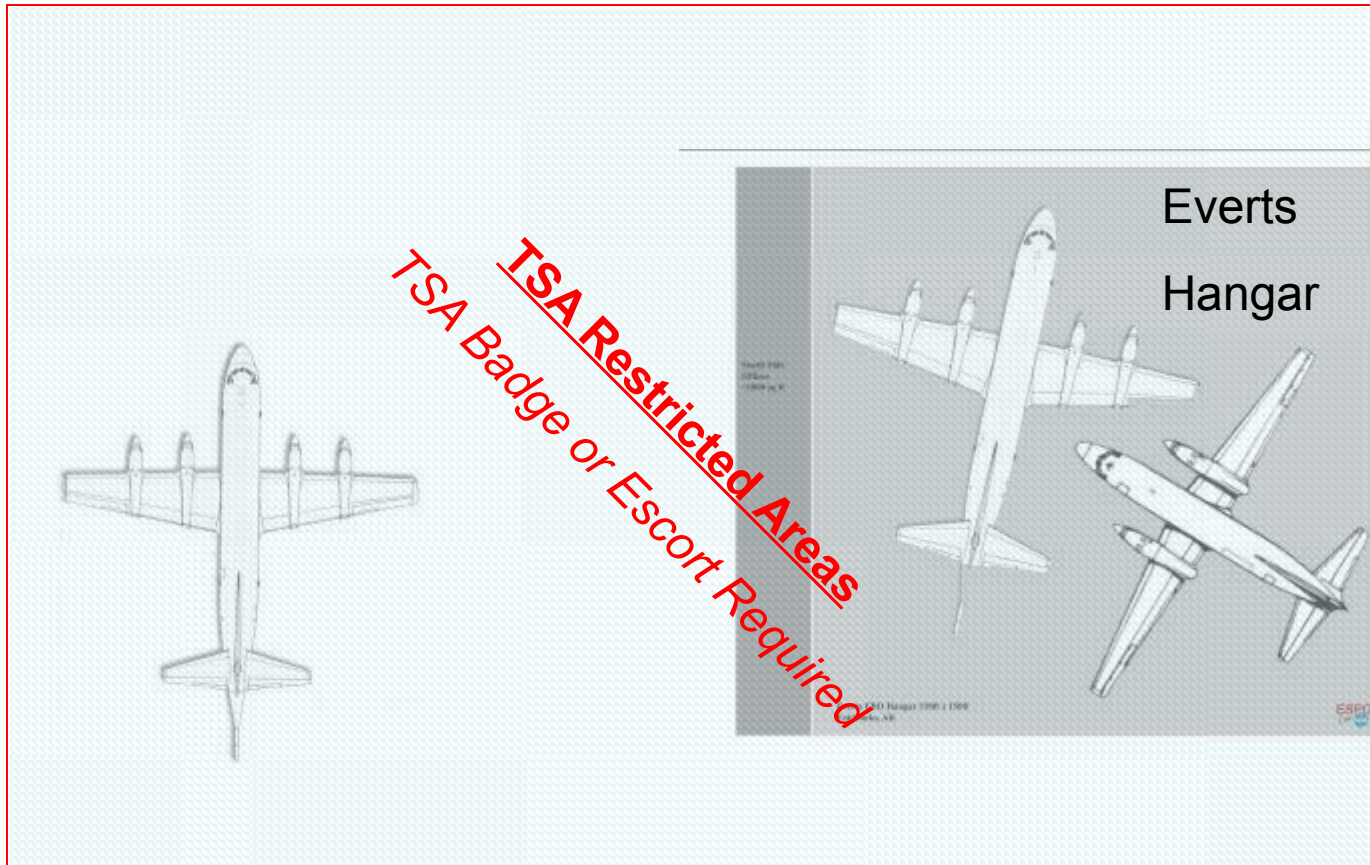
# FAI - Everts FBO Ramp



NASA, DC-8 and P-3 parked on ramp  
Limited access to hangar and flight line must be either badged by FAI –  
TSA or escorted for access

# FAI Security and Badging

- Fairbanks - TSA restricted hangar and aircraft parking ramp.
  - Currently only Civil Servants with FBI background checks may be able to obtain TSA badges at FAI
  - TSA Badged escorts required for hangar and ramp access
  - Office Spaces are not Restricted



# Fairbanks

- Hotels with room blocks are listed on the ARCTAS web site under the Logistics dropdown menu @
  - <http://www.espo.nasa.gov/arctas/hotels.php>
- Rental cars can be obtained via Fairbanks International airport...one car/group
  - You must reserve your own car prior to arrival
    - Payless, Alamo, Dollar, Hertz

# Spring Shipping

- Truck shipment to/from Fairbanks
  - ESPO will commercially pre-ship setup equipment 3-4 weeks in advance
  - PI Equipment will be shipped via truck to FAI 7 days in advance of deployment start date
  - Return truck shipment from FAI to Palmdale will in the last few days of Spring deployment

# Thule AFB Greenland





# Thule Greenland

- Entrance into Greenland
  - Denmark control
    - 30 day advanced country clearance request for each individual submitted to Thule - Denmark Liaison
    - Denmark visa requirements link on the ARCTAS web sit under logistics dropdown menu Local Info
      - [http://www.espo.nasa.gov/arctas/local\\_info.php](http://www.espo.nasa.gov/arctas/local_info.php)
- Security
  - Stay within the local area. Do not get too curious, although there is very little to see
- Rental Cars – none required - everything is within ¼ mile of hangar
- Airfield Operations
  - Limited Control Tower operating hours 0800-1600
  - Airfield operating hours 0600-1700

# Thule Accommodations

North Star Hotel (the only hotel) arraignments made by ESPO when we submit the country clearance request.



North Star Hotel

No Internet

Single rooms

Shared Bathrooms

\$31/night



Dinning Hall

Breakfast 0500-0800

Lunch 1100-1300

Dinner 1700-2000

# 4 Wing Cold Lake

## Alberta, Canada



Aircraft Ramp Parking



Office space example

# Cold Lake

- Getting there
  - Rental car - 180 miles - 4 hour drive
  - Military supplied bus from Edmonton 1/day
  - Currently no commercial air service
- Office Space
  - Adjacent to aircraft parking
  - 2-4 Mbps Internet - local ISP
  - Wireless networking **not** allowed in work area
- Lodging
  - On-base housing, walking distance to work area
  - Individual rooms with shared bathrooms - No Internet (wireless may be possible)
  - TV in common area on each floor
  - Dining hall next door to lodging
  - Lodging is outside of base secure area so we believe Non-US foreign nationals should not be a problem
- Security
  - Background Check Required for all
    - NASA Civil Servants and contractors with NACI equivalent background checks will be allowed unescorted access.
    - Badging and access requirements needs to be started by Feb 08

# Yellowknife

Northwest Territory, Canada



B-200 and NATIVE ground site Summer location

# Yellowknife

- Getting There
  - A few daily flights from Edmonton or Calgary
- Security
  - Aircraft parking would likely be on the FBO part of the airfield
  - Badging via the local FBO (usually far less complicated)

# Working Issues

- P-3 download at Ames (Spring and Summer)
- FAI (Everts) Security and badging
- Immigration from Thule to FAI
- Airlift possibilities for Spring Thule and Summer deployment
- Cold Lake bus from/to Edmonton and security on base for Non-US members